

### Abstract

Tumor vaccines for the use against MUC1 positive carcinomas are presented. A tumor vaccine containing synthetic peptides comprising sequences of the human epithelial mucin MUC1 containing the immunodominant region PDTRPAP which is glycosylated at the threonine. Preferred glycosylation of the immunodominant region is a O-glycosidically linked a-N-acetylgalactosamine (GalNAc) or short chained oligosaccharides. The present invention can be used on all MUC1-positive carcinomas.